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                 SCISEARCH enhanced with complete author names
         JUL 02
NEWS
                CHEMCATS accession numbers revised
NEWS 4
         JUL 02
         JUL 02 CA/CAplus enhanced with utility model patents from China
NEWS 5
         JUL 16 CAplus enhanced with French and German abstracts
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    7
                 CA/CAplus patent coverage enhanced
         JUL 18
NEWS
                USPATFULL/USPAT2 enhanced with IPC reclassification
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                USGENE now available on STN
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                 FSTA enhanced with new thesaurus edition
         AUG 06
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                 CA/CAplus enhanced with CAS indexing in pre-1907 records
         AUG 20
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                 Full-text patent databases enhanced with predefined
         AUG 27
NEWS 14
                 patent family display formats from INPADOCDB
                 USPATOLD now available on STN
         AUG 27
NEWS 15
                 CAS REGISTRY enhanced with additional experimental
         AUG 28
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                 spectral property data
                 STN AnaVist, Version 2.0, now available with Derwent
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         SEP 07
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         OCT 02
                 Zentralblatt
                 BEILSTEIN updated with new compounds
NEWS 24
         OCT 19
                 Derwent Indian patent publication number format enhanced
         NOV 15
NEWS 25
NEWS 26
         NOV 19
                 WPIX enhanced with XML display format
              19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
NEWS EXPRESS
              CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.
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              Welcome Banner and News Items
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FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 27 NOV 2007 HIGHEST RN 956075-61-9 DICTIONARY FILE UPDATES: 27 NOV 2007 HIGHEST RN 956075-61-9

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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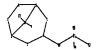
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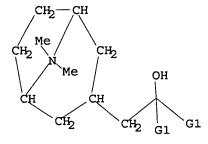
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chain nodes :
9  10  11  12  13  14  17
ring nodes :
1  2  3  4  5  6  7  8
chain bonds :
7-10  8-9  8-17  10-11  11-12  11-13  11-14
ring bonds :
1-2  1-7  2-3  2-8  3-4  4-5  5-6  5-8  6-7
exact/norm bonds :
1-2  1-7  2-3  2-8  3-4  4-5  5-6  5-8  6-7  11-12  11-13  11-14
exact bonds :
7-10  8-9  8-17  10-11
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G1:Cb, Hy, Ak

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 17:CLASS

L1 STRUCTURE UPLOADED

=> d l1 L1 HAS NO ANSWERS L1 STR



G1 Cb, Hy, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 17:21:32 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 165 TO ITERATE

100.0% PROCESSED 165 ITERATIONS

70 ANSWERS

SEARCH TIME: 00.00.01

L2 70 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 172.55 175.70

FULL ESTIMATED COST

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=> s 12

L3 7 L2

=> d l3 1-7 abs ibib hitstr

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

Title compds. [I: R1, R2 = (substituted) Ph, thienyl, pyridyl, PhCH2, pyrimidinyl, thiazolyl, isothiazolyl, cycloalkyl, etc.: R3 = H, OH: X = physiol. acceptable anion], were prepared for treatment of chronic obstructive pulmonary disease, chronic bronchitis, asthma, chronic respiratory obstruction, pulmonary fibrosis, emphysema, and allergic rhinitis (no data). Thus, 2-[(3-endo)]-6-methyl-6-azabicyclo[3.2.1]oct-3-yl]-1,l-bis(3-methyl-2-thienyl)ethanol (preparation given) was treated

With

MeBr in tert-Bu Me ether to give 61% (3-endo)-3-[2-hydroxy-2,2-bis(3-methyl-2-thienyl)-thyl)-8,8-dimethyl-8-azoniabicyclo[3.2.1]octane
bronide.

ACCESSION NUMBER: 2007:146107 CAPLUS
DOCUMENT NUMBER: 146:229203
TITLE: Preparation of azoniabicyclocotanes as M3 muscaria

2007:146107 CAPLUS
146:229203
Preparation of azoniabicyclocotanes as M3 muscarinic acetylcholine receptor antagonists.
Busch-Petersen, Jakob; Laine, Dramane Ibrahim;
Palovich, Michael R.; Davis, Roderick S.; Fu, Wei;
Xie, Haibo
Glaxo Group Limited, UK
PCT Int. Appl., 42pp.
CODEN: PIXXD2
Patent
English
1

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.			KIND DATE				APPL	ICAT	DATE								
WO 2007016639				A2 20070208					WO 2	006+		20060802					
WO	2007	0166	39		A3		2007	0705									
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		CN,	co,	CR,	Çυ,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HN,	HR,	HU,	ID,	IL,	IN,	ıs,	JP,	KE,	KG,	KM,	KN,	KP,
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		sc,	SD,	SE,	SG,	SK,	SL,	SM,	SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,
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		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	sĸ,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,
		GM,	Kε,	Ls,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KZ,	MD,	RU,	TJ,	TM.	AP.	EA.	EP.	OA						
PRIORITY	APP	LN.	INFO	. :						US 2	005-	7045	79P		₽ 2	0050	802

OTHER SOURCE(S): MARPAT 146:229203

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

924646-72-0 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-[2-hydroxy-2,2-bis(4-methyl-3-thienyl)ethyl]-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

• Br-

924646-74-2 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-[2-hydroxy-2,2-bis(5-methyl-2-thienyl)ethyl)-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

924646-76-4 CAPLUS 8-Axoniabicyclo[3.2.1]octane, 3-[2,2-bis[5-chloro-2-thieny1)-2-hydroxysthyl]-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN 924646-88-4P 924646-70-8P 924646-72-0P 924646-74-2P 924646-74-6P 924646-78-6P 924655-73-1P 924655-73-1P 924655-73-2P 924655-73-2P 924655-73-6P 924655-80-1P 924655-81-2P 924655-82-3P 924655-82-4P 924655-85-91-924655-81-4P 924655-91-4P (Continued) 924033-91-40 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (claimed compound; preparation of azoniabicyclooctanes as M3

muscarinc
acetylcholine receptor antagonists)
RN 924646-68-4 CAPLUS
CN 8-Azonisbicyclo[3].2.1]octane, 3-[2-hydroxy-2,2-bis(3-methyl-2-thienyl)ethyl]-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

muscarinic

• Br -

924646-70-8 CAPLUS 8-Azoniabicyclo[3.2.1]octane, -hydroxy-2,2-bis(3-methoxyphenyl)ethyl]-8,8-dimethyl-, iodide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

● T ·

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

● Br

924646-78-6 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-[2,2-bis[5-(difluoromethyl)-2-thienyl]-2-hydroxyethyl]-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAMZ)

Relative stereochemistry.

• Br -

924655-67-4 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-[2,2-bis(3-fluorophenyl}-2-hydroxyethyl]-8,8-dimethyl-, iodide (1:1), (3-endo)- (CA INDEX NAME)

924655-70-9 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-[2,2-bis(5-fluoro-2-methylphenyl)-2-hydroxyethyl]-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

● Br-

924655-72-1 CAPLUS 8-Axoniablcyclo[3.2.1]octane, 3-(2-hydroxy-2,2-di-3-thienylethyl)-8,8-dimethyl-, iodide (1:1), (3-endo)- (CA IMDEX NAME)

Relative stereochemistry.

(Continued) L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

● Br-

924655-77-6 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-{2,2-bis(5-fluoro-2-methoxyphenyl)-2-hydroxyethyl}-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

924655-78-7 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-{2,2-bis(3-fluoro-2-methylphenyl}-2-hydroxyethyl]-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

924655-73-2 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-[2,2-bis(3,4-difluorophenyl)-2-hydroxyethyl]-8.8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

924655-75-4 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-{2,2-bis(3,5-diffuorophenyl)-2-hydroxyethyl]-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

• Br-

924655-80-1 CAPLUS 8-Azoniabicyclo{3.2.1}octane, 3-(2,2-dicyclohexyl-2-hydroxyethyl)-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

● Br -

924655-81-2 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-(2,2-dicyclopentyl-2-hydroxyethyl)-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX MAME)

● Br -

RN 924655-82-3 CAPLUS
CN 8-Azoniabicyclo[3.2.1]octane, 3-[3-(2-fluorophenyl)-2-{(2-fluorophenyl) methyl]-2-hydroxypropyl]-8,8-dimethyl-, bromide (1:1),
(3-endo)- (CA INDEX NAME)

Relative stereochemistry.

• Br-

RN 924655-83-4 CAPLUS
CN 8-Azoniebicyclo[3.2.1]octane, 3-(2-hydroxy-2,2-di-2-pyridinylethyl)-8,8-dimethyl-, iodide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

• ı-

RN 924655-89-0 CAPLUS
CN 8-Azoniabicyclo[3.2.1]octane, 3-[2,2-bis(3-chlorophenyl)-2-hydroxyethyl]8,8-dimethyl-, iodide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

• 1-

RN 924655-90-3 CAPLUS
CN 8-Azoniabicyclo[3.2.1]octane, 3-{2,2-bis(2,3-difluorophenyl)-2-hydroxyethyl}-8,8-dimethyl-, iodide {1:1}, {3-endo}- (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

• ı-

RN 924655-84-5 CAPLUS
CN 8-Azoniabicyclo[3.2.1]octane, 3-[2,2-bis(4-fluorophenyl)-2-hydroxyethyl]-8,8-dimethyl-, iodide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

● I.

RN 924655-85-6 CAPLUS
CN 8-Azoniabicyclo[3.2.1]octane, 3-[2,2-bis(4-chlorophenyl)-2-hydroxyethyl]8,8-dimethyl-, iodide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry

L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

• 1-

RN 924655-91-4 CAPLUS
CN 8-Azoniabicyclo{3.2.1}octane, 3-{2-(2,3-dichlorophenyl)-2-hydroxy-2-phenylethyl)-8,8-dimethyl-, iodide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

• r-

ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

AB Title compds. [I; R1, R2 = (substituted) Ph, thienyl, pyridyl, PhCH2, pyrimidinyl, thiazolyl, isothiazolyl, cycloalkyl, etc.; X = pharmaceutically acceptable counterion), were prepared for treatment of COPD, chronic bronchitis, asthma, chronic respiratory obstruction, pulmonary fibrosis, emphysema, and allergic rhinitis (no data). Thus, (endo)-3-[2,2-bis(3-hydroxyphenyl)-gh-endyl-gh-e

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.					KIND DATE					ICAT										
WO 2007016650					A2 20070208			1	WO 2	006-		20060802								
WO 2007016650			A3 20070531																	
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		KG,	KZ,	MD,	RU,	TJ,	TM,	AP,	EA,	EP,	OA									
PRIORITY	IORITY APPLN. INFO.:									US 2005-704578P						P 20050802				

OTHER SOURCE(S):

MARPAT 146:229182

ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

• Br -

RN 924646-70-8 CAPLUS
CN 8-Azoniabicyclo[3.2.1]octane,
3-[2-hydroxy-2,2-bis:[3-methoxyphenyl]ethyl]8,8-dimethyl-, iodide {1:1}, {3-endo}- (CA INDEX NAME)

Relative stereochemistry.

924646-72-0 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-[2-hydroxy-2,2-bis(4-methyl-3-thienyl)ethyl1-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 924646-91-3
RL: RCT (Reactant); RACT (Reactant or resgent) (preparation of arylethenyldimethylazoniabicyclooctanes as M3 muscarinic muscarinic
acetylcholine receptor antagonists)
RN 924646-91-3 CAPLUS
CN 8-Azoniabicyclo[3.2.1]octane,
3-[2-hydroxy-2,2-bis(2-methoxyphenyl)ethyl]8,8-dimethyl-, iodide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

• ı-

IT 924646-68-4P 924646-70-8P 924646-72-0P
924646-74-2P 924646-76-4P 924646-78-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of arylethenyldimethylazoniabicyclooctanes as M3
muscarinic

arinic acetylcholine receptor antagonists) 924646-68-4 CAPLUS 8-Azonisbicyclo[3.2.1]octane, 3-{2-hydroxy-2,2-bis[3-methyl-2-thienyl]othyl]-6,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

924646-74-2 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-[2-hydroxy-2,2-bis(5-methyl-2-thienyl)sthyl]-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

924646-76-4 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-[2.2-bis(5-chloro-2-thieny1)-2-hydroxysthyl}-8.8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

● Br -

924646-78-6 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-{2,2-bis[5-(difluoromethyl)-2-thienyl}-2-hydroxyethyl]-8,8-dimethyl-, bromide (1:1), (3-endo)- (CA INDEX NAME)

Relative stereochemistry.

● Br-

ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) dimethyl-, bromide, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

102133-77-7 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-[2-hydroxy-2-phenyl-2-(2-thienyl)ethyl]-8,8-dimethyl-, bromide, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 106655-98-5 CAPLUS CN 8-Azoniabicyclo[3.2.1]octane, 3-(2-hydroxy-2,2-diphenylethyl)-8,8-dimethyl-, bromide, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

AB Muscarinic acetylcholine receptor antagonists, e.g.,
(3-endo)-3-(2-hydroxy2,2-diphenylethyl)-8.8-dimethyl-8-azoniabicyclo[3.2.1]octane bromide and methods of using them are provided. In addition a pharmaceutical composition for the treatment of muscarinic acetylcholinereceptor-mediated diseases comprising the above compound is disclosed.

ACCESSION NUMBER: 2005:99316 CAPLUS
DOCUMENT NUMBER: 142:183475
TITLE: Busch-Petersen, Jakob; Laine, Dramane: Palovich, Michael R.

PATENT ASSIGNEE(S): Glaxo Group Limited, UK
PCT Int. Appl., 19 pp.
CODEM: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.																				
				A2 20050203					WO	2004-		20040716								
WO 2005009362 W: AE, AG, AL,																				
	W:																			
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CN 1822839				A		2006	0823		CN	2004	-8002	0652		2	0040	716				
BR 2004012537																				
JP	2007	5254	78		T		2007	0906			2006									
IN 2006DN00077				А		2007	0824		IN	2006	-DN77			2	0060					
MX	2006	PAGG	663		А		2006	0330	1	MX	2006-	PA66	3		2	0060	117			
US	2006	1783	96		A1						2006-									
NO	2006	0007	77		A		2006	0411		NO	2006-	777			2	0060	217			
	APP		****							110	2003-	4070	920		D 2	0030	717			

WO 2004-US23041

W 20040716

OTHER SOURCE(S): MARPAT 142:183475
IT 90114-71-9 102133-77-7 106655-98-5 106713-93-3 106954-22-7 834882-84-7 834882-85-8

834882-85-8
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological atudy); USES (Uses)
(muscarinic acetylcholine receptor antagonists)
90114-71-9 CAPLUS
8-Azoniabicyclo[3.2.1]octane, 3-(2-hydroxy-2.2-di-2-thienylethyl)-8,8-

L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

RN 106713-93-3 CAPLUS CN 8-Azoniabicyclo[3.2.1]octane, 3-(2-cyclohexyl-2-hydroxy-2-phenylethyl)-8,8-dimethyl-, bromide, (3-endo)- [9CI] (CA INDEX NAME)

Relative stereochemistry.

RN 106954-22-7 CAPLUS
CN 8-Azoniabicyclo(3.2.1)octane,
3-{2-hydroxy-2-phenyl-2-{2-pyridinyl}ethyl}8,8-dimethyl-, bromide, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

834882-84-7 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-(3-cyclohexyl-2-hydroxy-2-phenylpropyl)-8,8-dimethyl-, bromide, (3-endo)- (9C1) (CA INDEX NAME)

● Br -

834882-85-8 CAPLUS RN 834882-85-8 CAPLUS
CN 8-Asoniabicyclo[3.2.1]octane,
3-(2-hydroxy-2,2-diphenylethyl)-8,8-dimethyl, (3-endo)-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 805224-99-1 CMF C23 H30 N O

Relative stereochemistry.

2

CRN 16722-51-3 CMF C7 H7 O3 S

L3 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
0.1-1.0; VI, a, 1, 2-cyclohexylethyl, Ph,--,--,--, RC1
199-200*. --; VI, a, 1, Ph, 2-pyridyl,--,--,--, tartrate
78-80*picrate 201-3*, --; and VI, a, 2, Ph,
Ph,--,--,-,-; cirtate 170*, MeBr 277*, citrate
0.001-0.010, MeBr aslt 0.01.
ACCESSION NUMBER: 1963:27160 CAPLUS
DOCUMENT NUMBER: 58:27160
ORIGINAL REFERENCE NO.: 58:45100-h

58:4510b-h
3-Substituted tropane derivatives. III. 3-Substituted tropane carbinols, alkenes, and alkanes Zirkle, Charles L.; Anderson, Elvin L.; Craig, Paul N.; Gerns, Fred R.; Indik, Zena K.; Pavloff, Alex M. Smith, Kline, 4 French Labs., Philadelphia, PA Journal of Medicinal 4 Pharmaceutical Chemistry (1962), 5, 341-56
CODEN: JMPCAS; ISSN: 0095-9065 AUTHOR (S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: Journal Unavailable

OTHER SOURCE(S): CASREACT 58:27160

106713-93-3

IT 106713-93-3

(Derived from data in the 7th Collective Formula Index (1962-1966))
RN 106713-93-3 CAPLUS
CN 8-Azoniabicyclo[3.2.1]octane,
3-(2-cyclohexyl-2-hydroxy-2-phenylethyl)-8,8dimethyl-, bromide, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

1T 90114-71-9P, 8-Azoniabicyclo(3.2.1)octane, 3-(2-hydroxy-2,2-di-2-thienylethyl)-8,8-dimethyl-, bromide 102133-77-7P,
8-Azoniabicyclo(3.2.1)octane, 3-(2-hydroxy-2-phenyl-2-(2-thienyl)ethyl]-8,8-dimethyl-, bromide 106655-98-5P, 8Azoniabicyclo(3.2.1)octane,
3-(2-hydroxy-2,2-diphenylethyl)-8,8-dimethyl-,
bromide 106954-22-7P, 8-Azoniabicyclo(3.2.1)octane,
3-(2-hydroxy-2-yhenyl-2-(2-pyridinyl)ethyl]-8,8-dimethyl-, bromide
RL: PREF (Preparation)

(preparation of)
90114-71-9 CAPUS
8-Azoniabicyclo[3.2.1]octane, 3-(2-hydroxy-2,2-di-2-thienylethyl)-8,8-dimethyl-, bromide, (3-endo)- (9CI) (CA INDEX NAME)

ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN For diagram(s), see printed CA Issue. cf. CA 57, 3389b. For testing as cholinolyti: agents, a series of 3-substituted tropane deriva. (Ia) were prepared by the following

3-substituted capen decisions are sequence:

(X = 3α-, or 3β-tropinyl) X(CH2)nCO2Me → X(CH2)nCOR (I)

→ X(CH2)nC(OH)RR' (II) → X: CRR' (III), XCH:CRR' (IV), or

XCH2CH:CRR' (V) → X(CH2)nCHRR' (VI) using the procedures followed
by Adamson for open-chain analogs (Adamson, et al., CA 45, 0462f).

Compds. prepared were (compound number, tropinyl group configuration, n,
R, R', *

vield, m.p., b.p./pressure, n25D, salts prepared with m.p. of each, and

ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

102133-77-7 CAPLUS 8-Azoniabicyclo[3.2.1]octane, 3-[2-hydroxy-2-phenyl-2-[2-thienyl]ethyl]-8,8-dimethyl-, bromide, (3-endo)- (9CI) (CA IMDEX NAME)

Relative stereochemistry.

RN 106655-98-5 CAPLUS CN 8-Atoniabicyclo[3.2.1]octane, 3-(2-hydroxy-2,2-diphenylethyl)-8,8-dimethyl-, bromide, (3-endo)- (9CI) (CA INDEX NAME)

L3 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (CO CN 8-Azoniabicyclo[3.2.1]octane, 3-[2-hydroxy-2-pheny1-2-(2-pyridiny1)ethy1]-8,8-dimethy1-, bromide, (3-endo)- (9CI) (CA INDEX NAME) (Continued)

Relative stereochemistry.

ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN Me 3-tropanecarboxylate (10.1 g.) in 100 ml. Et20 stirred 1.5 hrs. at

temperature with PhLi gave diphenyl-3-tropanylcarbinol, m. 214-15°

PATENT NO. KIND DATE 19550701

PATENT NO. KIND DATE APPLICATION NO.

US 2800481 1.2717-86-9P, 3-(β-Hydroxy-β-2-thienylphenethyl)-8-methyltropanium bromide 113222-63-2P, 3-(2-Hydroxy-2, 2-di-2-thienylphenyl)-8-methyltropanium bromide 113222-63-2P, 3-(2-Hydroxy-2, 2-di-2-thienylphenyl)-8-methyltropanium bromide 118063-60-4P, 118663-60-4P, 118063-60-4P, 1

ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

It had been known that, as by-products in the synthesis of
2-methyl-5-ethylpyridine by the condensation of paraldehyde with NH3,
-pricoline, 7-pricoline, 3-ethyl-4-methylpyridine,
2-methyl-5-(trans-1-butenyl)pyridine, 2-(trans-propenyl)-5-ethylpyridine,
2-methyl-5-(trans-1-butenyl)pyridine, [1], 2-methyl-5-(1aminobutyl)pyridine, 2-methyl-3-ethylpyridine (II), and
2,6-dimethyl-3-ethylpyridine were formed. In the author's expts., I and
II were not found, but in addition to the above compds., the existence of
2-propyl-5-ethylpyridine, 2-methyl-5-buttylpyridine, 2-methyl-5-(cis-1butenyl)pyridine, 2-(cis-propenyl)-5-ethylpyridine, and N-ethylacatanide
was confirmed, along with an unknown high-boiling CSHSN derivative
ng &

having a secondary amino group in the side chain. The amount of each by-product

determined by gas chromatography, and the mechanism of their formation WAS

discussed.

1963:27159 CAPLUS 58:27159 58:4509h,4510a-b ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

TITLE:

AUTHOR (9):

58:4509h,4510a-b
By-products formed in the manufacture of
2-methyl-5-ethylpyridine
Motoda, Tsuneo; Omae, Tsutomu; Yamamoto, Hiroshi;
Yoshie, Yoichi
Nippon Synthetic Chemical Industry Co., Ltd.,
Amagasaki
Kogyo Kagaku Zasshi (1962), 65, 354-9
CODEN: KGKZA7; ISSN: 0368-5462
Journal CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: Unavailable

LANGUAGE IT 106713-93-3

Relative stereochemistry.

ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (6CI) (CA INDEX NAME)

113222-63-2 CAPLUS 3-(2-Hydroxy-2, 2-di-2-thienylethyl)-8-methyltropanium bromide (6CI) (CA INDEX NAME)

● Br-

114863-60-4 CAPLUS 3-(B-Cyclohexyl-B-hydroxyphenethyl)-8-methyltropanium bromide (6CI) (CA INDEX NAME)

119016-27-2 CAPLUS
3-(4-Cyclohexyl-2-hydroxy-2-phenylbutyl)-0-methyltropenium bromide (6CI)
(CA INDEX NAME)

ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) (EtCAC). XIII (1 g.) and 2 ml. 858 H2504 heated 15 min. at 155° and the soln. made basic gave 1-phenyl-1-(2-pyridyl)-2-(3-tropanyl)ethylene (XIV), m. 97.5-9.5° (Me2CO). XIV 0.2 g.), 5 g. cyclohexene, and 0.3 g. 203 Pd-C refluxed 48 hrs. gave 1-phenyl-1-(2-pyridyl)-2-(3-tropanyl)ethane (XV) as a thick oil; picrate, m. 201-3° (aq. Me2CO). XV also forms the tartrate, m. 78-80° (alc.-Et2O). XII (12.2 g.) in 50 ml. Et2O added slowly to EtMgbr soln. (from 7.3 g. Mg) at 0°, the mixt. stirred 1.5 hrs. at room temp., then refluxed 1.5 hrs., decompd. with ice and 21 g. NH4Cl in 50 ml. H2O, the Et2O layer removed, and the aq. phase extd. with CHCl3 gave 1-ethyl-1-phenyl-3-tropaneethanol (XVI), m. 119-20°. XVI (0.44 g.) was dehydrated by heating 40 min. at 100° with 3 ml. concd. HCl to the ethylene, m. 170-200°. The ethylene hydrogenated in alc. over Raney Ni at 60° and 500 lb./qq. in. gave 1-ethyl-1-phenyl-2-(3-tropanyl)ethane (XVII), an oil, which formed an HCl salt. VIII (15 g.) similarly treated with 2-cyclohexylethylmagnesium bromide gave 2-cyclohexylethyl 3-tropanylmethyl ketone (XVIII), b0.7 157-64°, n/24.50 l.5010. XVIII (7.7 q.) in 20 ml. Et2O similarly treated with Phi (from 9.5 g. PhBr) in Et2O at 0° gave 1-(2-cyclohexylethyl)-1-phenyl-3-tropaneethanol (XIX), m. 104-6° (EtCAC). XIX (0.5 g.), l ml. HI, 3 ml. AcOH, and 0.13 g. red P refluxed 3.5 hrs., the soln filtered, the filtrate dild. with H2O, the crude HI salt sepd. as an oil and crystd. gave 1-stropanylethane-HI, m. 175° (alc.-Et2O). The free base was a colorless oil; HCl salt, m. 198-200°. Similarly, 25 g. VIII reacted with cyclohexylamgnesium bromide to give cyclohexyl
1-tropanylpethyl ketone (XIX), b0.9-11. 142-53°, crystq, to a white solid on standing. XX (10 g.) similarly treated with Phi gave 1-cyclohexyl-1-phenyl-3-tropaneethanol (XXI), m. 199-40.5° (EtCAC). XXI (1 g.) refluxed 0.5 hr. with AcOH and concd. HCl gave the ethylene salt, m. 195-6°. Hydrolysis gave the free base as an oil. The fre

XXI (1 g.) refluxed 0.5 hr. with AcOH and concd. HCl gave the ethylene salt, m. 195-6°. Hydrolysis gave the free base as an cil. The free base (4.4 g.) hydrogenated over Raney Ni at 500 lb./sq. in. and 60° gave 1-cyclohexyl-1-phenyl-2-(3 tropanyl)ethane, colorless oil; HCl salt, m. 167-8.5°, cirate, m. 153-5°, butlodide, white solid. N. Hisporpylnortropanne (16.7 g.), 11.3 g. NECHZCOZE, 1.6 g. NH40Ac, 7.3 g. AcOH, 20 ml. alc., and 0.6 g. Pd-C shaken with H at 60 lb./sq. in. and 60°, the residue refluxed 12 hrs. with concd. HCl gave crude 3-(N-isopropylnortropane)-acotic acid-HCl which was escrified with anhyd. HeOH and HCl 3 days at room temp. gave Me 3-(N-isopropylnortropanel)-acotic acid-HCl which was escrified with anhyd. HeOH and HCl 3 days at room temp. gave Me 3-(N-isopropylnortropanel)-acotic acid-HCl which was escrified vith anhyd. HeOH and HCl 3 days at room temp. gave Me 3-(N-isopropylnortropanel)-acotic acid-HCl which was escrified vith an individual service of the servi

to the residual mixt., and the product isolated gave 3-tropanepropionitrile (XXVI), b0.3 114-16*, n25D 1.4958. XXVI (25 g.) in 100 ml. 37% HCl refluxed several hrm., and evapd., the residue dissolved in 300 ml. alc., 5 ml. concd. H2SO4 added, and the residue

ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN Some new physiologically active 3-substituted-8-alkylnortropanes, the nontoxic organic and inorg. salts, and the quaternary ammonium salts a described. Me 3-(3-hydroxytropane)carboxylate (10 g.) in 50 ml. Ac20 heated 4 hrs. at 100°, the excess Ac20 and AcOT removed in vacuo, the residue poured into H2O, extracted with Et2O, and the Et2O evaporated gave Me

3-(3-acotoxytropane)-carboxylate (I), m. 66-7*, bl5 162-5*.

I (29 g.) added dropmise during 7 min. to a vartical tube heated to
420* and filled with pieces of Pyrex tubing, the apparatus swept with N,
the product dissolved in dilute HCI, extracted with ECO, the aqueous

acid solution saturated with K2CO3, and the product separated gave Me

3-(2-tropene)carbox/late
(II), b15 131-4", n25.5D 1.4998. II (13 g.) in 100 ml. MeOH
hydrogenated over 5 g. Raney Ni at 50 lb./sq. in. at room temperature

and the mixture distilled gave Me 3-tropanecarboxylate (III), b18 128-32°, n25D 1.4819. III (10.1 g.) in 100 ml. Et2O stirred 1.5 hrs. at room temperature with

rature with a solution of PhLi (from 34.5 g. PhBr and 3.5 g. Li) in 100 ml. Et2O, the mixture added to 150 ml. H2O, and the solid collected and purified gave diphenyl-3-tropanecarbinol (IV), m. 185.5-6.0° (EtOAc). IV (5.6 g.) in 20 ml. AcOH and 25 ml. dilute HCl refluxed 10 min. and evaporated

dippenyl-3-tropamecarbinol (IV), m. 185.5-6.0 (EtCAG). IV (3.6 g.) in 20 ml. AcOld and 25 ml. diluce HCI refluxed 10 min. and evaporated dryness gave 3-benzhydrylidenetropane-HCl, m. 275-8 (alc.-Et2O); free base (V), a colorless oil. V (4 g.) in alc. hydrogenated over Raney Ni at 400 lb./sq. in. at 60° and the product chromatographed on Al2O3 gave 3-benzhydryltropane (VI), m. 70-2°. VI (1 g.) gave the HCl salt, unmelted below 310°, MeBr salt, m. 277-9°; etho(ethyl sulfate), white solid. Tropinone (13.9 g.), 11.3 g. NCCH2COZET, 1.6 g. NH4OAC, 7.3 g. AcOH, 20 ml. alc., and 0.6 g. Pd-C shaken under H at 50° and 60 lb./sq. in. gave Et ac-yano-3-tropaneacetate (VII), b0.3 l16-18°, n24D 1.4942. VII (8 g.) in 30 ml. 37% HCl refluxed 13 hrs. and the crude 3-tropaneacetic acid-HCl esterified by leaving 3 days at room erature in 50 ml. alc. with dry HCl gave Et 3-tropaneacetate (VIII), b2 104-5°, n25D 1.4774. VIII (42 g.) in 100 ml. Et2O similarly treated with PhLi gave 1,1-diphenyl-3-tropaneethanol (IX), m. 146.5-7.5° (EtOAc). IX (14.6 g.) in 29 ml. 37% HCl and 100 ml. AcOH refluxed 0.5 hr. gave 1,1-diphenyl-2-(3-tropanyl)ethylene (X), as the HCl salt, m. 217-18° (alc.-Et2O) free X, m. 109.5-10.0° (MeZCO). X (10 g.) in alc. hydrogenated over Raney Ni at 500 lb./sq. in. and 60° gave 1,1-diphenyl-2-(3-tropanyl)ethane, colorless oil: HCl salt, m. 244-5°; methobromide, m. 257-6° (alc.-Et2O); methob-roluenesulfonate, white solid, meleate, obtained by treating with maleic acid in alc. VIII in 37% HCl refluxed several hrs. gave 3-tropaneacetic acid-HCl (XI), m. 172-4° (MeOH-Et2CO). XI (11 g.) similarly treated with PhLi followed by passage of HCl gave the HCl salt which when washed was reconverted to phenyl 3-tropanylmethyl, ketone), bo.2 138-41°. BuLi (from 3.7 g. BuCl and 0.7 g. Li) in 25 ml. Et2O

(XII),

b0.2 138-41'. BuLi (from 3.7 g. BuCl and 0.7 g. Li) in 25 ml. Et20 treated slowly at -45' with 5.5 g. 2-bromopyridine in 10 ml. Et20, the mixture stirred 10 min., and 2.5 g. XII in 30 ml. Et20 added slowly.

mixture stirred 15 min. at -15*, 50 ml. H2O added, the mixture stirred a further 15 min., a solid collected, the solid stirred with CHCl3 and H2O, and the CHCl3 layer removed, combined with the Et2O layer and svaporated

gave 1-phenyl-1-(2-pyridyl)-3-tropaneethanol (XIII), m. 117-18.5*

L3 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) treated with 40% NaOH gave Et 3-tropanepropionate (XXVIII, b0.4 97-100*, n2SD 1.4770. Similarly XXVII treated with Phil gave 1.1-diphenyl-3-tropanepropanol (XXVIII), bn. 414-2.5*. Dehydration of XXVII with concd. RCl and 40% NaOH added gave 1.1-diphenyl-3-(3-tropanyl)-1-propene (XXIX), b0.4 170-3*, m. 59-60*. XXIX (4.7 g.) hydrogenated over 5 g. Raney Ni gave 1.1-diphenyl-3-(3-tropanyl))-1-popene as an oil; citrate. m. 170*, methobromide, m. 277*. XXVII reduced with 3 g. LiAll4 gave 3-tropanepropanol (XXXI), b1 128-31*. XXXI (7.7 g.) treated with 10 g. SOC12 gave the HCl salt, which treated with X2CO3 liberated 1-chloro-3-(3-tropanyl)propane (XXXI), b1 100-2*. XXXI (5 g.) refluxed 18 hrs. with 0.1 g. NaI. 5 g. KCN, 18 ml. alc., and 8 ml. H2O gave 3-tropanebutyronitrile (XXXII), b0.3 132-5*. XXXII (3 g.) refluxed several hrs. with concd. HCl and the product treated with 40% NaOH gave Et 3-tropanebutyrate (XXXIII), b0.5 115-19*. XXXIII (2.3 g.) similarly treated with p-tolyl magnesium bromide gave p-tolyl y-(3-tropanyl)propyl ketone (XXXIV), b0.2 188-92*. XXXIV (1.5 g.) in 15 ml. Et20 treated with Buli and 2-bromopyridine in Et2O gave 1-(2-pyridyl)-1-p-tolyl-3-tropanebutanol (XXXV), cryst. solid. XXXV (0.5 g.) dehydrated with 83 H2SOd, and the product reduced as described above gave 1-(2-pyridyl)-1-p-tolyl-4-(13-tropanyl)butane. II (9.2 g.) with Meli gave dimethyl-3-tropaneachinol, which was dehydrated by refluxing with AcOH and concd. HCl, and the product hydrogenated-over Raney Ni to give 3-isopropylotropane as an oil. XXII (11.3 g.) treated with C6H3Jii gave 1.1-dihexyl-3-(N-isopropylnotropane)tennol (XXXVI), white solid. XXXVI (8.9.) refluxed 45 min. with AcOH and HCl gave an unsatd. product as the HCl salt which was hydrogenated over Raney Ni to give 3-isopropyltropane as an oil. XXII (11.3 g.) treated with C6H3Jii gave 1.1-dihexyl-3-(N-isopropylnotropane)tennol (XXXVI), white solid. XXXVI (8.9.) refluxed 45 min. with AcOH and HCl gave an unsatd.

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 2800478 19570723 US 1955-519646 19550701 112717-86-9 113222-63-2 114863-60-4 19916-27-2 119148-74-2 124119-19-3 (Derived from data in the 6th Collective Formula Index (1957-1961)) 12717-86-9 CAPLUS

(β-Hydroxy-β-2-thienylphenethyl)-8-methyltropanium bromide (CI) (CA INDEX NAME)

L3 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

• Br-

RN 113222-63-2 CAPLUS
CN 3-(2-Hydroxy-2,2-di-2-thienylethyl)-8-methyltropanium bromide (6CI) (CA INDEX NAME)

. . . .

RN 114863-60-4 CAPLUS
CN 3-(B-Cyclohexyl-B-hydroxyphenethyl)-8-methyltropanium bromide
(6C1) (CA INDEX NAME)

• Br-

RN 119016-27-2 CAPLUS
CN 3-(4-Cyclohexyl-2-hydroxy-2-phenylbutyl)-8-methyltropanium bromide (6CI)
(CA INDEX NAME)

L3 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

● Br-

RN 119148-74-2 CAPLUS
CN 3-(2-Hydroxy-2,2-diphenylethyl)-8-methyltropanium bromide (6CI) (CA INDEX
NAME)

. . .

RN 124119-19-3 CAPLUS
CN 3-(2-Hydroxy-2,2-diphenylethyl)-8-methyltropanium p-toluenesulfonate
(6CI)
(CA INDEX NAME)

См 1

CRN 124119-18-2 CMF C23 H30 N O

CM 2

CRN 16722-51-3 CMF C7 H7 O3 S

L3 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE TOTAL ENTRY SESSION

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